CLAIM AMENDMENTS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A caching method, comprising:

caching first data received from a data source within a static cache as stable data, the static cache having a fixed size;

evicting a portion portions of the stable data within the static cache to a dynamic cache when the static cache is full reaches a threshold fill level; and

enrolling the evicted <u>portion</u> portions of the stable data into the dynamic cache as soft data, the dynamic cache having a dynamic<u>ally changing</u> size.

- 2. (Original) The caching method of claim 1, wherein the dynamic cache is dynamically sized according to availability of memory.
- 3. (Currently Amended) The caching method of claim 2, wherein evicting the portion[[s]] of the stable data further comprises evicting the portion[[s]] of the stable data to the dynamic cache according to a Least Recently Used eviction policy.
- 4. (Currently Amended) The caching method of claim [[2]] 1, further comprising: evicting selectively at least some of the soft data from the dynamic cache when the availability of the memory is scarce; and

contracting the dynamic cache to release some of the memory consumed by the dynamic cache.

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5. (Original) The caching method of claim 4, wherein evicting selectively the at

least some of the soft data further comprises evicting the at least some of the soft data

according to a Least Recently Used eviction policy.

6. (Currently Amended) The caching method of claim 4, wherein enrolling the

evicted portion[[s]] of the stable data into the dynamic cache as soft data comprises

caching the soft data as hash values of a hash table, the hash values being indexed to keys

for accessing the hash values.

7. (Original) The caching method of claim 6, wherein evicting selectively at least

some of the soft data from the dynamic cache comprises:

copying at least some of the keys into a garbage queue, the at least some of the

keys corresponding to the at least some of the soft data; and

removing at least some of the hash values from the hash table based on the at least

some of the keys in the garbage queue.

8. (Original) The caching method of claim 7, wherein a Java Garbage Collector

selectively copies the at least some of the keys into the garbage queue.

9. (Currently Amended) The caching method of claim 2, wherein the data

comprises first data, the method further comprising:

intercepting a request for second data from the data source;

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determining whether the second data is cached within either of the static cache

and dynamic cache; and

providing the second data from either of the static cache and the dynamic cache

instead of the data source, if the determining determines that the second data is cached.

10. (Currently Amended) The caching method of claim 9, further comprising

moving the second data to a most recently used position within the static cache, if the

determining determines upon determining that the second data is cached.

11. (Original) The caching method of claim 2, wherein the static cache and the

dynamic cache comprise a hybrid-cache within a single memory device.

12. (Original) The caching method of claim 2, wherein the stable data and the

soft data comprise objects of an object orientated language.

13. (Currently Amended) A machine-accessible medium that provides

instructions that, if executed by a machine, will cause the machine to perform operations

comprising:

caching first data received from a data source into a hybrid-cache, the hybrid-

cache including a static cache having a fixed size and a dynamic cache having a

dynamically changing size;

enrolling the first data received from a data source into the static cache as stable

data;

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evicting selective portions of the stable data within the static cache to the dynamic

cache when the static cache is full; and

enrolling the selective portions of the stable data evicted from the static cache into

the dynamic cache as soft data.

14. (Original) The machine-accessible medium of claim 13, wherein the dynamic

cache is dynamically sized according to availability of memory.

15. (Currently Amended) The machine-accessible medium of claim [[14]] 13,

further providing instructions that, if executed by the machine, will cause the machine to

perform further operations, comprising:

expanding the dynamic cache to accommodate the selective portions of the stable

data evicted to the dynamic cache, if adequate memory is available; and

evicting at least some of the soft data from the dynamic cache to accommodate

the selective portions of the stable data evicted to the dynamic cache, if adequate memory

is not available.

16. (Original) The machine-accessible medium of claim 15, further providing

instructions that, if executed by the machine, will cause the machine to perform further

operations, comprising:

contracting the dynamic cache to release some of the memory consumed by the

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dynamic cache, if the memory is scarce.

Examiner: Ko, Daniel Bokmin Art Unit: 2189 17. (Original) The machine-accessible medium of claim 15, wherein enrolling the

selective portions of the stable data evicted from the static cache into the dynamic cache

as the soft data comprises caching the soft data within the dynamic cache according to a

canonical mapping scheme.

18. (Original) The machine-accessible medium of claim 17, wherein caching the

soft data within the dynamic cache according to the canonical mapping scheme comprises

caching the soft data as a hash value of a hash table, the hash values being indexed to

keys for accessing the hash values.

19. (Original) The machine-accessible medium of claim 18, wherein evicting the

at least some of the soft data from the dynamic cache comprises:

copying at least some of the keys into a garbage queue, the at least some of the

keys corresponding to the at least some of the soft data; and

removing at least some of the hash values from the hash table based on the at least

some of the keys in the garbage queue.

20. (Original) The machine-accessible medium of claim 13, wherein evicting

selective portions of the stable data within the static cache comprises evicting the

selective portions of the stable data according to a Least Recently Used eviction policy.

21. (Original) The machine-accessible medium of claim 13, wherein the stable

data and the soft data comprise objects of an object orientated language.

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22. (Currently Amended) A system, comprising:

a processor to process requests for [[first]] data from a data source; and

a memory device communicatively coupled to the processor, the memory device

to hold a hybrid-cache, the hybrid-cache comprising:

a static cache for caching the [[first]] data as stable data, the static cache

having a fixed size; and

a dynamic cache having a dynamically changing size according to

availability of memory within the memory device, wherein portions of the stable data

within the static cache are to be evicted to the dynamic cache as soft data when the static

cache is full.

23. (Original) The system of claim 22, wherein the dynamic cache is to expand to

accommodate the portions of the stable data evicted to the dynamic cache when the static

cache is full, if adequate memory is available within the memory device.

24. (Original) The system of claim 23, wherein the dynamic cache is further to

evict at least some of the soft data from the dynamic cache to accommodate the portions

of the stable data evicted to the dynamic cache, if adequate memory is not available

within the memory device.

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25. (Original) The system of claim 24, wherein the dynamic cache is further to

contract to release memory consumed by the dynamic cache, if other entities within the

memory device expand.

26. (Original) The system of claim 24, wherein the memory device comprises

Random Access Memory ("RAM") and wherein the data source comprises a data storage

device communicatively coupled to the processor, the hybrid-cache to reduce swapping

to the data storage device.

27. (Currently Amended) The system of claim 22, wherein the system comprises

a caching server, wherein the requests for the [[first]] data from the data source comprise

requests from clients of the caching server, and wherein the data source comprises an

Internet.

28. (Currently Amended) The system of claim 22, wherein the system comprises

an Application Server, wherein the requests for the [[first]] data from the data source

comprise requests from clients of the Application Server, and wherein the data source

comprises at least one database.

29. (Original) The system of claim 22, wherein the Application Server comprises

one of a Java based Application Server and a .NET based Application Server.

30. (Original) A system, comprising:

static means for caching stable data received from a data source within a fixed

amount of memory;

first means for selectively evicting portions of the stable data from the static

means when the static means is full;

dynamic means for caching soft data within a dynamically changing amount of

memory; and

means for enrolling the portions of the stable data evicted by the means for

evicting into the dynamic means as the soft data.

31. (Original) The system of claim 30, wherein the dynamic means is further for

caching the soft data within the dynamically changing amount of the memory based on an

available amount of the memory.

32. (Original) The system of claim 31, further comprising:

second means for evicting the soft data from the dynamic means when the

available amount of memory is scarce.

33. (Original) The system of claim 33, wherein the dynamic means is further for

contracting the dynamically changing amount of memory when the available amount of

memory is scarce.

34. (New) The caching method of claim 1, wherein the threshold fill level

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comprises a full static cache.

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